ABSTRACT OF THE DISCLOSURE

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3 The apparatus of the invention includes an embedded device having program code stored in ROM and an on-board or external RAM 4 for storing modified code segments. The methods of the invention 5 include structuring the ROM-based firmware so that an external 6 RAM-based function is called prior to each potentially modifiable 7 code segment. Prior to modifying the firmware, a dummy function 8 - 9 is stored in RAM so that every call to RAM is simply returned to 10 When a segment of code is to be modified, a replacement is stored in RAM and indexed by the return address of the function The system of the present invention is efficient as it uses very little RAM. It does not require ROM-based decision making; and it is not limited to a particular programming language. system of the invention is most suitable for use in a computer peripheral which communicates with a higher level controller, e.g. 17 a personal computer, from which replacement code can be 18 downloaded.